

Title (en)  
TUNGSTEN WIRE, TUNGSTEN WIRE PROCESSING METHOD USING SAME, AND ELECTROLYSIS WIRE

Title (de)  
WOLFRAMDRAHT, WOLFRAMDRAHTVERARBEITUNGSVERFAHREN DAMIT UND ELEKTROLYSEDRAHT

Title (fr)  
FIL DE TUNGSTÈNE, PROCÉDÉ DE TRAITEMENT DE FIL DE TUNGSTÈNE, ET FIL D'ÉLECTROLYSE

Publication  
**EP 4331741 A1 20240306 (EN)**

Application  
**EP 22795375 A 20220322**

Priority  
• JP 2021074583 A 20210427  
• JP 2022013189 W 20220322

Abstract (en)  
According to one embodiment, a tungsten wire includes a tungsten alloy containing rhenium. The tungsten wire includes a protrusion peak density (Spd) of 7000 or more and 11000 or less as a surface roughness parameter.

IPC 8 full level  
**B21J 5/08** (2006.01); **B21C 1/00** (2006.01); **B22F 5/12** (2006.01); **B23H 3/00** (2006.01); **C22C 27/04** (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)  
**B21C 1/00** (2013.01 - US); **B22F 3/10** (2013.01 - EP); **B22F 3/12** (2013.01 - EP); **B22F 5/12** (2013.01 - EP US); **B22F 9/082** (2013.01 - EP); **B23H 3/00** (2013.01 - US); **C22C 1/045** (2013.01 - EP); **C22C 27/04** (2013.01 - EP US); **C22F 1/00** (2013.01 - EP); **C22F 1/18** (2013.01 - EP); **G01R 1/06755** (2013.01 - US); **B21C 1/003** (2013.01 - EP); **B22F 2003/185** (2013.01 - EP); **G01R 1/06755** (2013.01 - EP)

C-Set (source: EP)  
**B22F 3/12 + B22F 2201/013**

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4331741 A1 20240306**; CN 117337218 A 20240102; JP WO2022230455 A1 20221103; US 2024052461 A1 20240215; WO 2022230455 A1 20221103

DOCDB simple family (application)  
**EP 22795375 A 20220322**; CN 202280031105 A 20220322; JP 2022013189 W 20220322; JP 2023517150 A 20220322; US 202318492929 A 20231024